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Collins et al.

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(54) **DENTAL IMPLANT WITH IMPROVED OSSEOINTEGRATION FEATURES**

(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

Dental implants made at least in part of a highly porous biomaterial such as porous tantalum for enhancing the osseointegration of the dental implant into surrounding bone. For example, there is provided a dental implant which includes a core formed of with a head portion having an abutment interface and a stem portion extending from the head portion. A porous tantalum sleeve is disposed about the stem portion and occupies a substantial portion of the implant/bone interface of the implant. After implantation of the implant, bone tissue may osseointegrate into the porous tantalum sleeve to anchor the implant in position within the surrounding bone. Other embodiments of implants are provided, each implant including at least a portion thereof formed of porous tantalum for improved osseointegration.

4 Claims, 9 Drawing Sheets

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A61C 8/00 (2006.01)

(52) **U.S. Cl.** **433/173**

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See application file for complete search history.

